MAINTENANCE MANUAL

McIntosh

MC275

STEREO POWER AMPLIFIER

(Serial No.'s 275-10001 to 275-10147
and 100E1 & above)

VOLTAGE AND RESISTANCE CHART

Tube	Pin No.	DC Volts No. Signal	AC Volts at rated output	Resistance in Ohms Unit Off
12AX7	1	100	2.1	160K*
(VI)	2	0	.47	1M
	3	.95	.44	3.3K
	4 & 5	0	0	0
	6	100	2.1	160K*
	7	0	.47	1M
	8	.95	.44	3.3K
	9	0	6.3	
12AU7	1	240	12	37K*
(V2 or V5)	2	100	2.1	160K*
	3	106	.96	18K
	4 & 5	0	0	0
	6	240	12	40K*
	7	84	0	2.4M"
	8	106	.96	18K
	9	0	6.3	0
12BH7	1	365	152	12K*
(V3 or V6)	2	22	12	210K
	3	40	.7	2.7K
	4 & 5	0	0	0
	6	365	152	12K
	7	22	12	210K
	8	40	.7	2.7K
	9	0	6.3	0
12AZ7	1	205	112	38**
(V4 or V7)	2	-57	152	1M
	3	-57	149	170K
	4 & 5	0	0	0
	6	205	112	38**
	7	-57	152	1M
	8	-57	149	170K
	9	0	6.3	0
KT88/6550	1			
(V8, V9, V10.V11)	2	0	0 or 6.3	0
	3	450	116	38
	4	450	112	260
	5	-57	149	170K
	6			
	7	0	6.3 or 0	6
	8	.6	116	15

"This resistance measured with condenser C25A shorted to ground.
"This resistance measured with condenser C24B shorted to ground.
High impedance VTVM is used to measure the operating voltages.

600A/70.7 OUTPUT RECEPTICAL CONNECTIONS

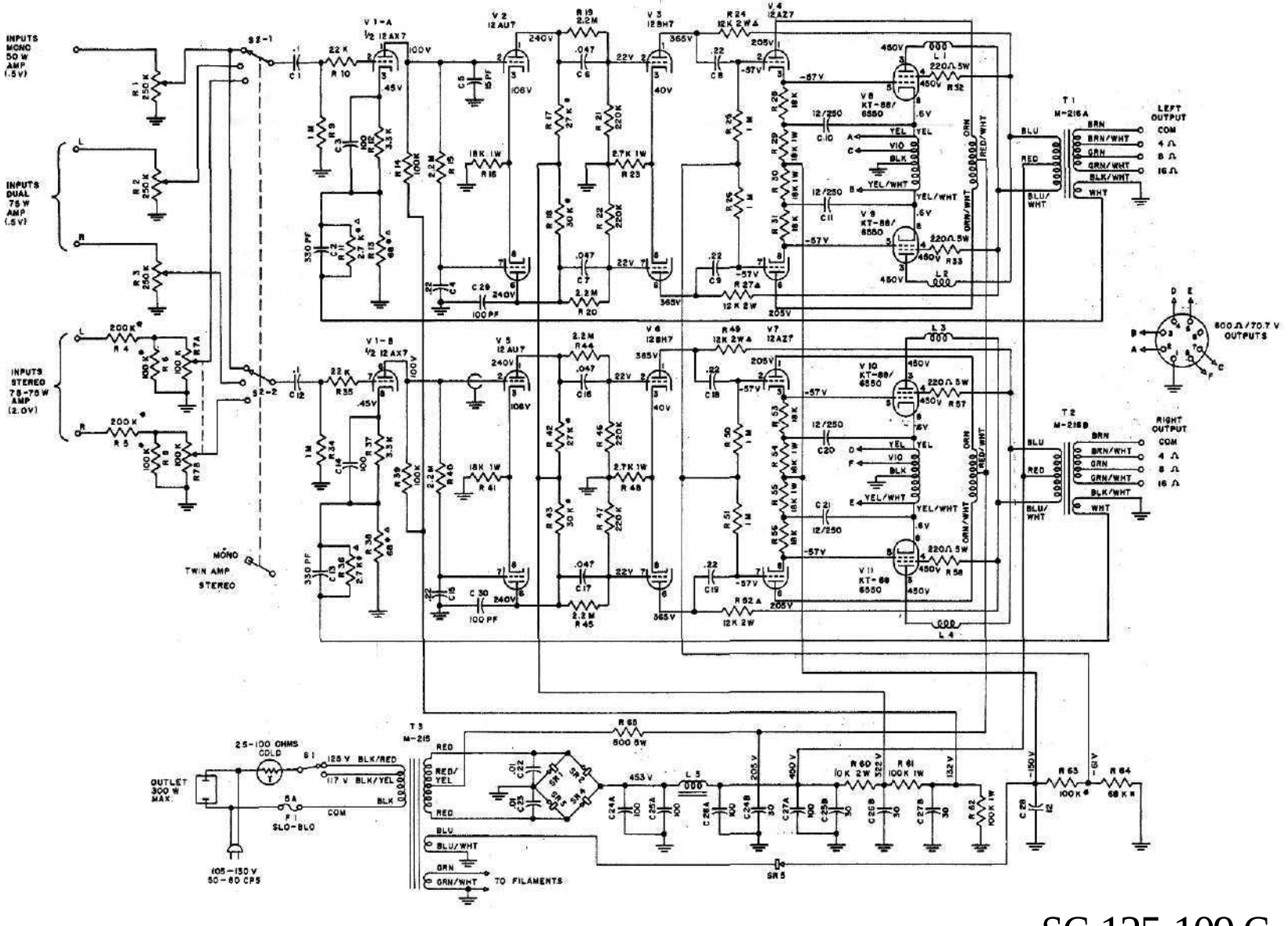
PIN 1-GROUND, 70.7 V RETURN, AND 600 A C.T.
PINS 1 AND 7- LEFT 70.7 V OUTPUT
PINS 2 AND 3 - LEFT 600 A OUTPUT
PINS 1 AND 8 - RIGHT 70.7 V OUTPUT
PINS 4 AND 5- RIGHT 600 A OUTPUT

SINGLE CHANNEL (MONO) OUTPUT NOTE

FOR SINGLE CHANNEL OUTPUT PARALLEL OR SERIES CONNECT THE L AND R OUTPUTS TO OBTAIN DESIRED OUTPUT IMPEDANCE.

*** 5% TOLERANCE RESISTORS**

A FOLLOWING COMPONENTS ARE MATCHED TO 1%:
R11 AND R36
R13 AND R38
R24 AND R27
R49 AND R52


INPUTS MONO 50 W AMP (.5 V)
INPUTS DUAL 75 W AMP (.5 V)
INPUTS STEREO 75-75 W AMP (2.0 V)
MONO
TWIN AMP
STEREO
S2-1
S2-2
V1-A 1/2 12AX7
V1-B 1/2 12AX7
V2 12AU7
V3 12BH7
V4 12AZ7
V5 12AU7
V6 12BH7
V7 12AZ7
V8 KT-88/6550
V9 KT-88/6550
V10 KT-88/6550
V11 KT-88/6550
L1
L2
L3
L4
L5
T1 M-216A
T2 M-216B
T3 M-215
LEFT OUTPUT
RIGHT OUTPUT
COM
4 Ω
8 Ω
16 Ω
600 Ω / 70.7 V OUTPUTS
2.5-100 OHMS COLD
S1
125 V BLK/RED
117 V BLK/YEL
BLK
COM
5A
F1
SLO-BLO
OUTLET 300 W MAX.
105-130 V 50-60 CPS
RED
RED/YEL
BLU
BLU/WHT
GRN
GRN/WHT
TO FILAMENTS
SR1
SR2
SR3
SR4
SR5
R65 500 5W
R60 10K 2W
R61 100K 1W
R62 100K 1W
R63 100K
R64 68 K

SC 125-109 C

Special components used in the MC275 are listed below. These components are designed and built specifically for the MC275. They may be purchased directly from McIntosh Laboratory by ordering from the Service Department. Be sure to mention "Schematic No.," description, and model and serial number for your amplifier when ordering parts.

SCHEMATIC NO.	DESCRIPTION
C24,C25,C26,C27	Filter Capacitor 100/30 mfd 500/450V
L1, L2, L3, L4	RF Choke
L5	Filter Choke
R1, R2, R3	Gain Control, 250K
R7	Balance Control
R59	Thermistor
S2	Input Selector Switch
SR1,SR2,SR3,SR4	Silicon Rectifier, 600 PIV at 500 MA
SR5	Selenium Rectifier, 400 PIV at 75 MA
T1	Output Transformer, Type M-216A
T2	Output Transformer, Type M-216B
T3	Power Transformer, Type M-215

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